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## In the Claims:

- 1. (Original) A method of battery monitoring including the steps of:
- a) acquiring a battery voltage measurement from the battery;
- b) acquiring a time measurement associated with the battery voltage measurement acquired in step a);
- c) determining a scaled voltage value by scaling the battery voltage measurement made in step a) with respect to a predetermined end voltage;
- d) determining a scaled time value from the scaled voltage value determined in step c) in accordance with a predetermined battery characteristic; and
- e) obtaining a reserve time from the scaled time value determined in step d), the reserve time being indicative of the difference between the time measurement acquired in step b) and an end time associated with the predetermined end voltage.
  - 2. (Original) A method of battery monitoring including the steps of:
  - a) acquiring a battery voltage measurement from the battery;
- b) acquiring a time measurement associated with the battery voltage measurement acquired in step a);
- c) determining a scaled voltage value by scaling the battery voltage measurement made in step a) with respect to a start voltage and a predetermined end voltage;
- d) determining a scaled time value from the scaled voltage value determined in step c) in accordance with a predetermined battery discharge characteristic; and
  - e) obtaining an absolute time value from the scaled time value determined in step d).
- 3. (Original) A method according to claim 2 wherein the absolute time value is a reserve time indicative of the difference between the time measurement acquired in step b) and an end time associated with the predetermined end voltage.

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- 4. (Currently Amended) A method according to any of the preceding claims claim 2 further including performing one or more additional repeats of steps a) -e) during a single battery discharge.
- 5. (Original) A method according to claim 4 wherein step e) includes the steps of: e) i) determining the difference between a lower time measurement and an upper time measurement; e) ii) determining the difference between a pair of scaled time values associated with the lower and upper time measurements; and e) iii) determining the ratio of the differences determined in steps e) i) and e) ii).
- 6. (Original) A method according to claim 5 wherein the lower and upper time measurements change for each repeat of step e).
- 7. (Original) A method according to claim 6 wherein the lower and upper time measurements are associated with a pair of adjacent repeats.
- 8. (Currently Amended) A method according to claim 5 or 6 wherein the lower time measurement is the same for each repeat of step e), and the upper time measurement changes for each repeat of step e).
- 9. (Currently Amended) A method according to any of claims 4 to 8 claim 4 wherein the battery voltage measurements include a measured start voltage, and wherein the scaled voltage value is determined in step c) by scaling the battery voltage measurement with respect to the measured start voltage and the predetermined end voltage.
- 10. (Currently Amended) A method according to any of the preceding claims claim 2 further including the step of receiving and storing the predetermined end voltage.
- 11. (Original) A method according to claim 10 further including the step of rescaling the battery discharge characteristic in accordance with the stored end voltage.

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- 12. (Original) A method of characterising a battery including:
- a) acquiring a plurality of battery voltage measurements from the battery, the battery voltage measurements including a start voltage and an end voltage;
- b) acquiring a plurality of time measurements, each time measurement being associated with a respective battery voltage measurement, the time measurements including an end time associated with the end voltage;
- c) determining a plurality of scaled voltage values by scaling each battery voltage measurement with respect to the start voltage and the end voltage;
- d) determining a plurality of scaled time values by scaling each time measurement with respect to the end time; and
- e) storing a battery discharge characteristic indicative of the relationship between the scaled voltage values and the scaled time values.
- 13. (Currently Amended) A method according to any of claims 1 to 11 claim 12 wherein the predetermined battery characteristic used in step e) has been obtained by a method according to claim 12.
- 14. (Original) A method according to claim 13 further including the step of obtaining the predetermined battery characteristic by a method according to claim 11.
- 15. (Currently Amended) Software for configuring a system to perform a method according to any of the preceding claims A computer program product comprising computer program code embodied in a computer-readable storage medium, the computer program code configured to implement the method of Claim 12.

## 16. (Canceled)

17. (Currently Amended) A system configured to implement the method of any of claims 1 to 14 Claim 12, the system including a sensor for acquiring configured to aquire the

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battery voltage measurements; a timer for generating configured to generate the time measurements; and a processor for performing configured to perform steps c) to e).

- 18. (Currently Amended) A system according to claim 17 further including a store for storing configured to store the result of step e).
- 19. (Currently Amended) A system according to claim 17 or 18 further including one or more output devices for outputting configured to output the result of step e).
- 20. (Original) A system according to claim 19 wherein the output device is a display unit.
- 21. (Currently Amended) A <u>computer readable</u> storage medium containing a battery discharge characteristic which has been determined by the method of <del>any one of elaims 12-14</del> <u>claim 12</u>.
- 22. (New) A method according to claim 1 further including performing one or more additional repeats of steps a) -e) during a single battery discharge.
- 23. (New) A method according to claim 22 wherein step e) includes the steps of:
  e) i) determining the difference between a lower time measurement and an upper time
  measurement; e) ii) determining the difference between a pair of scaled time values
  associated with the lower and upper time measurements; and e) iii) determining the ratio of
  the differences determined in steps e) i) and e) ii).
- 24. (New) A method according to claim 23 wherein step e) includes the steps of:
  e) i) determining the difference between a lower time measurement and an upper time
  measurement; e) ii) determining the difference between a pair of scaled time values
  associated with the lower and upper time measurements; and e) iii) determining the ratio of
  the differences determined in steps e) i) and e) ii).

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- 25. (New) A method according to claim 24 wherein the lower and upper time measurements change for each repeat of step e).
- 26. (New) A method according to claim 25 wherein the lower and upper time measurements are associated with a pair of adjacent repeats.
- 27. (New) A method according to claim 24 wherein the lower time measurement is the same for each repeat of step e), and the upper time measurement changes for each repeat of step e).
- 28. (New) A method according to claim 23 wherein the battery voltage measurements include a measured start voltage, and wherein the scaled voltage value is determined in step c) by scaling the battery voltage measurement with respect to the measured start voltage and the predetermined end voltage.
- 29. (New) A method according to claim 1 further including the step of receiving and storing the predetermined end voltage.
- 30. (New) A method according to claim 29 further including the step of re-scaling the battery discharge characteristic in accordance with the stored end voltage.
- 31. (New) A computer program product comprising computer program code embodied in a computer-readable storage medium, the computer program code configured to implement the method of Claim 1.
- 32. (New) A computer program product comprising computer program code embodied in a computer-readable storage medium, the computer program code configured to implement the method of Claim 2.

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- 33. (New) A system configured to implement the method of Claim 1, the system including a sensor configured to acquire the battery voltage measurements; a timer configured to generate the time measurements; and a processor configured to perform steps c) to e).
- 34. (New) A system according to claim 33 further including a store configured to store the result of step e).
- 35. (New) A system according to claim 33 further including one or more output devices configured to output the result of step e).
- 36. (New) A system according to claim 35 wherein the output device is a display unit.
- 37. (New) A system configured to implement the method of Claim 2, the system including a sensor configured to acquire the battery voltage measurements; a timer configured to generate the time measurements; and a processor configured to perform steps c) to e).
- 38. (New) A system according to claim 37 further including a store configured to store the result of step e).
- 39. (New) A system according to claim 37 further including one or more output devices configured to output the result of step e).
- 40. (New) A system according to claim 39 wherein the output device is a display unit.